



**Ames Construction, Inc.**

3737 West 2100 South  
West Valley City, UT 84120  
801-977-8012 • Fax 801-977-8059

M/049/0086  
cc: Lynn  
Wayne  
TASK: 4987



July 31, 2012

104507-AC-DOGM-L002

Paul Baker, Minerals Program Manager  
Utah Department of Natural Resources  
Division of Oil, Gas & Mining  
1594 West Temple Suite 1210  
Salt Lake City, Utah 84114-5801

By: *Hand Delivery*

**Re: Permit # M/049/0086 – Lincoln Pit  
Response to DOGM Comments Regarding LMO NOI Second Review**

Dear Mr. Baker:

On behalf of Ophir Minerals and Aggregate Group, LLC (OMAG) Ames Construction, Inc. (Ames) is responding to the Division's July 9, 2012 second draft review of Permit #M/049/0086. Enclosed are the requested productivity worksheets for the surface shaping and grading and surface soil placement associated with the earthwork surety sheets located in Appendix F. Please note the cost for hauling the surface soil has been encompassed by the dozer push distance efficiency factor.

On behalf of OMAG, Ames has recently reclaimed the area outside the original BLM material sale boundary. At this juncture we feel the effort is substantially complete and are waiting for BLM approval as well as formally processing the material sale extension. This must all be finalized before Figure 2 can be revised for DOGM submittal.

At this time Ames cannot commit to a completion deadline as the BLM approval is outside of our control. At the earliest opportunity, Ames will notify DOGM regarding BLM resolution and Figure 2 will be revised and resubmitted at that time thereby commencing the public noticing process.

Please contact me with any questions or concerns with this submittal and thank you for your cooperation on this important matter.

Sincerely

Christopher Ennes  
Western Region Environmental Manager  
Enclosures

cc: Chris McKee – OMAG w/out attachments

**RECEIVED**  
**JUL 31 2012**  
**DIV. OF OIL, GAS & MINING**

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OFFICE IN: PHOENIX, ARIZONA • AURORA, COLORADO • BURNSVILLE, MINNESOTA • CARLIN, NEVADA

Response to May 31, 2012 Division First Review Comments

**Operator: Ames Construction Inc.**

**Mine Name: Lincoln Pit**

**File Number: M/049/0086**

**Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.**

**DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<u>ADD</u>	REPLACE	REMOVE	Appendix H – Surety Worksheets
ADD	REPLACE	REMOVE	
ADD	REPLACE	REMOVE	
ADD	<u>REPLACE</u>	REMOVE	
ADD	<u>REPLACE</u>	REMOVE	
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**I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.**

Leonardo Botelho

Print Name

SR. Manager

Sign Name, Position

7/31/12

Date

**Return to:**

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Phone: (801) 538-5291 Fax: (801) 359-3940

**FOR DOGM USE ONLY:**

File #: M/ /

Approved: \_\_\_\_\_

Bond Adjustment: from (\$) \_\_\_\_\_  
to \$ \_\_\_\_\_

Project: M/049/0086  
 Date: 07/20/12  
 Prepared by: C. Ennes

WORKSHEET 5  
 PRODUCTIVITY AND HOURS REQUIRED FOR DOZER USE

Earthmoving Activity:

Surface Soil Replacement

Characterization of Dozer Used (type, size, etc.):

D6R Series II - 165 hp

Description of Dozer Use (origin, destination, grade, haul distance, material, etc.):

This activity involves pushing topsoil material an average distance of 225' from the project topsoil berm stockpile that forms a perimeter around the site. Refer to Figure 4. Mine Phasing Plan. Because the finished grade at this site is 2:1, the grade factor was estimated at .85.

Productivity Calculations:

$$\begin{aligned} \text{Operator Adjustment Factor} = & \boxed{1.00} \times \boxed{1.30} \times \boxed{0.85} \times \boxed{0.85} \times \boxed{0.87} \\ & \text{operator} \quad \text{material} \quad \text{efficiency} \quad \text{grade} \quad \text{weight} \\ & \text{factor} \quad \text{factor} \quad \text{factor} \quad \text{factor} \quad \text{correction} \\ & \text{factor} \\ & \times \boxed{1.00} \times \boxed{1.00} \times \boxed{1.00} = \boxed{0.82} \\ & \text{production} \quad \text{visibility} \quad \text{elevation} \\ & \text{method/blade} \quad \text{factor} \quad \text{factor} \\ & \text{factor} \end{aligned}$$

$$\begin{aligned} \text{Net Hourly Production} = & \boxed{140} \text{ LCY/hr} \times \boxed{0.82} = \boxed{114} \text{ LCY/hr} \\ & \text{normal hourly} \quad \text{operating} \\ & \text{production} \quad \text{adjustment} \\ & \text{factor} \end{aligned}$$

$$\begin{aligned} \text{Hours Required} = & \boxed{23800} \text{ LCY} \div \boxed{114} \text{ LCY/hr} = \boxed{208.0} \text{ hr(s)} \\ & \text{volume to} \quad \text{net hourly} \\ & \text{be moved} \quad \text{production} \end{aligned}$$

$$\begin{aligned} 208 \div 12 \text{ hr day (Crew B-11Q Production)} \\ = 17 \text{ days} \end{aligned}$$

Data Source(s):

Project: M/049/0086  
 Date: 07/20/12  
 Prepared by: C. Ennes

WORKSHEET 5  
 PRODUCTIVITY AND HOURS REQUIRED FOR DOZER USE

Earthmoving Activity:

Surface shaping and grading

Characterization of Dozer Used (type, size, etc.):

D6R Series II - 165 hp

Description of Dozer Use (origin, destination, grade, haul distance, material, etc.):

This activity involves pushing fairly unconsolidated material at very short distances (<100') to achieve a final configuration for top soil placement and ultimate seed bed preparation. The cut to fill ratio is estimated to average 12" per acre. Because the finished grade at this site is 2:1, the grade factor was estimated at .85.

Productivity Calculations:

$$\begin{aligned}
 \text{Operator Adjustment Factor} = & \boxed{1.00} \times \boxed{1.00} \times \boxed{0.83} \times \boxed{0.85} \times \boxed{0.80} \\
 & \text{operator} \quad \text{material} \quad \text{efficiency} \quad \text{grade} \quad \text{weight} \\
 & \text{factor} \quad \text{factor} \quad \text{factor} \quad \text{factor} \quad \text{correction} \\
 & \text{factor} \\
 & \times \boxed{1.00} \times \boxed{1.00} \times \boxed{1.00} = \boxed{0.56} \\
 & \text{production} \quad \text{visibility} \quad \text{elevation} \\
 & \text{method/blade} \quad \text{factor} \quad \text{factor} \\
 & \text{factor}
 \end{aligned}$$

$$\begin{aligned}
 \text{Net Hourly Production} = & \boxed{300} \text{ LCY/hr} \times \boxed{0.56} = \boxed{169} \text{ LCY/hr} \\
 & \text{normal hourly} \quad \text{operating} \\
 & \text{production} \quad \text{adjustment} \\
 & \text{factor}
 \end{aligned}$$

$$\begin{aligned}
 \text{Hours Required} = & \boxed{29846} \text{ LCY} \div \boxed{169} \text{ LCY/hr} = \boxed{176.3} \text{ hr(s)} \\
 & \text{volume to} \quad \text{net hourly} \\
 & \text{be moved} \quad \text{production}
 \end{aligned}$$

$$\begin{aligned}
 176 & \div 12 \text{ hr day (Crew B-11Q Production)} \\
 & = 15 \text{ days}
 \end{aligned}$$

Data Source(s):